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4321365 : Oligonucleotides useful as adaptors in DNA cloning, adapted DNA molecules, and methods of preparing adaptors and adapted molecules

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INTL. CLASS (Ed. 3): **C07H 021/04;**
 U.S. CLASS: **536/027; 536/028; 536/029;**
 FIELD OF SEARCH: **536-26-29 ; 435-317,172 ;**



The invention described herein was made in the course of work under a grant, GM-18887, from the Department of Health, Education and Welfare.

ABSTRACT: Synthetic oligonucleotides have been designed and prepared which are useful in the molecular cloning of a variety of DNA molecules. By means of such oligonucleotides, genetic informational material, e.g., DNA, can be joined to a cloning vehicle and transferred into host cells by transformation. Additionally, a method for determining whether genetic informational material has been transferred into transformed host cells has been developed.

U.S. REFERENCES: [Show the 25 patents that reference this one](#)

Patent	Inventor	Issued	Title
4237224	Cohen et al.	12/1980	Process for producing biologically functional molecular chimeras

EXEMPLARY CLAIM(s): [Show all 19 claims](#)

We claim:

1. An adaptor molecule useful for attaching DNA containing genetic information to a cloning vehicle consisting of DNA which comprises a double-stranded oligodeoxyribonucleotide having at one end thereof a protruding nucleotide sequence which is the recognition site for a restriction endonuclease.

RELATED U.S. APPLICATIONS: **none**

FOREIGN APPLICATION PRIORITY DATA: **none**

FOREIGN REFERENCES: **none**

OTHER REFERENCES:

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- Pribnow, Proc. Nat. Acad. Sci., vol. 72, pp. 784-788, 1975.
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- Itakura et al., Science, vol. 198, pp. 1056-1066 (1977).

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